

JAVA BYTECODE INSTRUCTION FOR RETRIEVING STRING REPRESENTATIONS OF JAVA OBJECTS

ABSTRACT OF THE DISCLOSURE

5 Improved techniques for representing Java objects as strings are disclosed. An inventive Java Bytecode instruction suitable for execution by a Java virtual machine is disclosed. The inventive Java Bytecode instruction can be executed by a Java virtual machine to represent Java objects as strings. Moreover, Java objects can be represented as strings
10 without invoking the Java "to_string" method which is conventionally used. This means that the costly overhead associated with repeatedly invoking Java method "to_string" is avoided. In other words, operations that are conventionally performed each time the Java "to_string" method is invoked need not be performed. As a result, the performance of virtual machines,
15 especially those operating with limited resources (e.g., embedded systems) can be improved.